

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L10   | 0    | 9 and 2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/31 01:31 |
| S95   | 3876 | S92 S93   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR               | ON      | 2007/01/31 01:30 |
| L9    | 4656 | 7 8   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/31 01:30 |
| L8    | 1701 | 327/152,153,161,158.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/31 01:30 |
| L7    | 3068 | 375/371-373.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/31 01:30 |
| L2    | 0    | (delay control sampl\$4 cascade\$1 inverters feedback pattern).clm.   | USPAT   | AND              | OFF     | 2007/01/31 01:30 |
| S96   | 5    | S94 and S95   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR               | ON      | 2007/01/31 01:27 |
| S94   | 111  | ((((oscillator or clock) with inverter) with (((feed or fed) near back) or feedback)) and inverter.drwd.) and ((oscillator or clock).drwd.) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR               | ON      | 2007/01/31 01:04 |
| S93   | 1308 | 327/152,153,161,158.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR               | ON      | 2007/01/31 01:04 |
| S92   | 2675 | 375/371-373.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR               | ON      | 2007/01/31 01:04 |

## EAST Search History

|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| S91 | 3876 | S88 S89   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 21:49 |
| S90 | 111  | ((((oscillator or clock) with inverter) with (((feed or fed) near back) or feedback)) and inverter.drwd.) and ((oscillator or clock).drwd.) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 21:49 |
| S89 | 1308 | 327/152,153,161,158.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 21:49 |
| S88 | 2675 | 375/371-373.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 21:49 |
| S87 | 3876 | S84 S85   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 21:49 |
| S86 | 111  | ((((oscillator or clock) with inverter) with (((feed or fed) near back) or feedback)) and inverter.drwd.) and ((oscillator or clock).drwd.) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 19:00 |
| S85 | 1308 | 327/152,153,161,158.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 19:00 |
| S84 | 2675 | 375/371-373.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 19:00 |
| S82 | 111  | ((((oscillator or clock) with inverter) with (((feed or fed) near back) or feedback)) and inverter.drwd.) and ((oscillator or clock).drwd.) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 19:00 |
| S79 | 1218 | 327/152,153,161,158.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 19:00 |
| S10 | 2343 | 375/371-373.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30 19:00 |
| S83 | 5    | S81 and S82   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/13 20:53 |

## EAST Search History

|     |       |   |  |    |    |                  |
|-----|-------|---|--|----|----|------------------|
| S81 | 3699  | S79 S80   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/13 20:53 |
| S80 | 2586  | 375/371-373.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/13 20:53 |
| S8  | 100   | ((((oscillator or clock) with inverter) with (((feed or fed) near back) or feedback)) and inverter.drwd.) and ((oscillator or clock).drwd.) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/13 20:53 |
| S65 | 1129  | 327/152,153,161,158.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/13 20:49 |
| S78 | 395   | sampling and synchro\$7 and S77   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/01 14:28 |
| S77 | 1980  | (delay near (circuit line)) same data same latch same outputs and S75   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/01 14:27 |
| S76 | 2341  | (delay near (circuit line)) same data same outputs and S75  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/01 14:20 |
| S75 | 5709  | S74 and @ad <= "20000417"   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/01 14:19 |
| S71 | 124   | S70 and @ad <= "20000417"   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/01 14:19 |
| S70 | 212   | (delay near (circuit line)) same data same outputs and S66  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/01 14:19 |
| S74 | 6982  | (delay near (circuit line)) same (latch )   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/01 14:18 |
| S73 | 16373 | (delay near (circuit line)) and (latch )  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/01 14:18 |

## EAST Search History

|     |         |  |  |    |     |                  |
|-----|---------|--|--|----|-----|------------------|
| S64 | 30303   | (delay near (circuit line)) and (latch sampling adc)         | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/11/01 14:18 |
| S72 | 102     | S71 and (latch )   | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/11/01 14:11 |
| S69 | 252     | S67 and @ad <= "20000417"                                    | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/11/01 14:02 |
| S67 | 432     | (delay near (circuit line)) same outputs and S66             | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/11/01 14:02 |
| S68 | 0       | S67 and @ad <= "04172000"                                    | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/11/01 13:49 |
| S66 | 463     | S64 and S65  | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/11/01 13:46 |
| S63 | 77      | (odd near inverters) and (ring near oscillat\$4)             | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/03/17 11:20 |
| S62 | 11      | pattern and (odd near inverters) and (ring near oscillat\$4) | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/03/17 11:06 |
| S61 | 607     | pattern and inverters and (ring near oscillat\$4)            | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/03/17 11:02 |
| S60 | 0       | pattern and S58  | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/03/17 11:01 |
| S59 | 1322581 | pattern  | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2005/03/17 11:01 |
| S58 | 2       | ("5796313").PN.  | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/17 11:01 |

## EAST Search History

|     |      |  |  |    |     |                  |
|-----|------|--|--|----|-----|------------------|
| S57 | 164  | S55 and S56  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/03/09 15:13 |
| S56 | 3690 | (delay near line) with outputs                         | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/03/09 15:11 |
| S53 | 1789 | inverter with (delay near line)                        | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/03/09 15:11 |
| S55 | 290  | S52 and S53 and clock                                  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/03/09 15:09 |
| S54 | 320  | S52 and S53  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/03/09 15:09 |
| S52 | 887  | inverter and ((delay near line) with (latch sampl\$4)) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/03/09 15:09 |
| S50 | 1476 | inverter and ((delay near line) same (latch sampl\$4)) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/03/09 15:08 |
| S51 | 1255 | S50 and clock  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/03/09 15:07 |
| S49 | 2    | ("6275547").PN.  | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/09 15:06 |
| S48 | 2    | ("5926053").PN.  | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/09 11:29 |
| S47 | 47   | S31 and S46  | US-PGPUB;<br>USPAT;<br>USOCR                         | OR | ON  | 2005/02/11 12:07 |
| S46 | 613  | (sampling with clock) and dll                          | US-PGPUB;<br>USPAT;<br>USOCR                         | OR | ON  | 2005/02/11 12:07 |

## EAST Search History

|     |       |  |  |    |     |                  |
|-----|-------|--|--|----|-----|------------------|
| S45 | 13    | S44 and dll  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON  | 2005/02/11 12:06 |
| S44 | 394   | S31 and ((delay\$4 near line) same ((dac latch switch sampl\$4) with (timing signal clock))) | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON  | 2005/02/11 12:02 |
| S43 | 812   | S31 and (delay\$4 near line) and ((dac latch switch sampl\$4) with (timing signal clock))    | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON  | 2005/02/11 12:01 |
| S42 | 803   | S31 and (delay\$4 near line) and ((dac latch switch sampl\$4) with (timing signal))          | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON  | 2005/02/11 12:01 |
| S41 | 797   | S31 and (delay\$4 near line) and ((dac latch switch sampl\$4) with signal)                   | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON  | 2005/02/11 12:00 |
| S40 | 841   | S31 and (delay\$4 near line) and (dac latch switch sampl\$4)                                 | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON  | 2005/02/11 12:00 |
| S39 | 36    | S31 and ((delay\$4 near line) same inverter) and (dac latch switch sampl\$4)                 | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON  | 2005/02/11 12:00 |
| S38 | 33    | S31 and ((delay\$4 near line) same inverter) and (dac sampl\$4)                              | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON  | 2005/02/11 12:00 |
| S37 | 759   | S31 and (delay\$4 near line) and (dac sampl\$4)  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | OFF | 2005/02/11 11:57 |
| S36 | 5812  | S31 and delay\$4 and (dac sampl\$4)  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | OFF | 2005/02/11 11:57 |
| S35 | 813   | S31 and delay\$4 and dac   | US-PGPUB;<br>USPAT;<br>USOCR               | OR | OFF | 2005/02/11 11:56 |
| S34 | 17    | (delay\$3 with dac) same S31   | US-PGPUB;<br>USPAT;<br>USOCR               | OR | OFF | 2005/02/11 11:56 |
| S33 | 0     | (delay3 with dac) same S31   | US-PGPUB;<br>USPAT;<br>USOCR               | OR | OFF | 2005/02/11 11:48 |
| S32 | 11    | (delay with dac) same S31  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | OFF | 2005/02/11 11:48 |
| S31 | 19002 | (over near sampl\$6) oversampl\$6  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/11 11:48 |

## EAST Search History

|     |        |   |                                   |    |     |                  |
|-----|--------|---|-----------------------------------|----|-----|------------------|
| S30 | 26     | ("5034813"   "5185538"   "5394114"   "5440514"   "5440515"   "5442629"   "5479124"   "5537068"   "5563526"   "5568064"   "5604775"   "5608876"   "5687202"   "5687330"   "5740213"   "5818270"   "5990714"   "6037812"   "6043717"   "6087868"   "6104223"   "6249164"   "6317161"   "6330034"   "6348823"   "6392458").PN. | US-PGPUB; USPAT; USOCR            | OR | OFF | 2005/02/11 11:48 |
| S29 | 2      | ("6249164").URPN.   | USPAT                             | OR | OFF | 2005/02/10 17:41 |
| S28 | 11     | ("4994730"   "5180995"   "5185538"   "5440514"   "5440515"   "5442629"   "5479124"   "5563526"   "5568064"   "5608876"   "5687330").PN.   | US-PGPUB; USPAT; USOCR            | OR | OFF | 2005/02/10 17:37 |
| S27 | 30     | S26 and S24   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/02/10 17:15 |
| S26 | 936    | (voltage near control\$5) same phase same S21   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/02/10 17:15 |
| S25 | 169    | S21 and S23 and S24   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/02/10 17:15 |
| S23 | 41671  | (voltage near control\$5) same phase  | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/02/10 17:15 |
| S24 | 19002  | (over near samp!\$6) oversamp!\$6   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/02/10 17:14 |
| S22 | 184065 | voltage near control\$5   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/02/10 17:14 |
| S21 | 50063  | dll or (delay near line)  | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/02/10 17:14 |
| S20 | 5963   | dll   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/02/10 17:13 |
| S19 | 5      | ("4716573"   "5506863"   "5528622"   "5778075"   "5809059").PN.   | USPAT                             | OR | OFF | 2004/06/25 11:00 |

## EAST Search History

|     |       |   |                                   |    |    |                  |
|-----|-------|---|-----------------------------------|----|----|------------------|
| S18 | 78    | bluetooth and (((frequency or channel) near hopping) with sequence)   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/25 10:57 |
| S17 | 10    | (ring near oscillator) and ((inverter near series) with buffer)   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/25 10:57 |
| S16 | 10    | ((oscillator or clock) same inverter) and (ring near oscillator) and 375/130-377.cccls.) and (inverter near series)   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:36 |
| S9  | 15    | ((((oscillator or clock) with inverter) with (((feed or fed) near back) or feedback)) and inverter.drwd.) and ((oscillator or clock).drwd.)) and (inverter near series) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:35 |
| S15 | 126   | ((oscillator or clock) same inverter) and (ring near oscillator) and 375/130-377.cccls.   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:34 |
| S14 | 44326 | 375/130-377.cccls.  | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:34 |
| S13 | 5177  | ring near oscillator  | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:34 |
| S12 | 4     | (375/371-373.cccls. and ((oscillator or clock).drwd.)) and inverter.drwd.   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:34 |
| S11 | 535   | 375/371-373.cccls. and ((oscillator or clock).drwd.)  | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:31 |
| S7  | 32586 | (oscillator or clock).drwd.   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:19 |
| S6  | 189   | (((oscillator or clock) with inverter) with (((feed or fed) near back) or feedback)) and inverter.drwd.   | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:19 |
| S5  | 8120  | inverter.drwd.  | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/24 20:18 |

## EAST Search History

|    |       |  |  |    |     |                  |
|----|-------|--|--|----|-----|------------------|
| S4 | 1552  | ((oscillator or clock) with inverter) with (((feed or fed) near back) or feedback) | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2004/06/24 20:18 |
| S3 | 28265 | (oscillator or clock) with inverter  | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2004/06/24 20:14 |
| S2 | 44570 | (oscillator or clock) same inverter  | USPAT; EPO; JPO; DERWENT; IBM_TDB        | OR | ON  | 2004/06/24 20:14 |
| S1 | 2     | ("5727004").PN.  | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/06/24 20:13 |